Illinois Department of Transportation
2300 South Dirksen Parkway / Springfield, Illinois / 62764

October 22, 2004

SUBJECT: FAI Route 80
Section 2626.2-R-1
Cook County (IL), Lake County (IN)
Item No. 4X, November 5, 2004 Letting
Addendum A

NOTICE TO PROSPECTIVE BIDDERS:

Attached is an addendum to the plans or proposal. This addendum involves revised and/or added material.

1. Revised check sheet for the Recurring Special Provisions.
2. Revised pages ii and iv of the Table of Contents.
3. Revised pages 66 and 67 of the Special Provisions.
4. Added pages 194 - 204 to the Special Provisions.
5. Revised pages 2, 3, 6, 8, 9, 10, 11 & 12 of the Schedule of Prices.
6. Revised sheets 2, 3, 5-8, 59-61, 65, 97, 107, 166 & 234 of the Plans.
7. Added sheets 144a - 144p to the Plans.

Prime contractors must utilize the enclosed material when preparing their bid and must include any Schedule of Prices changes in their bidding proposal.

Bidders using computer-generated bids are cautioned to reflect any and all Schedule of Prices changes, if involved, into their computer programs.

Very truly yours,

Michael L. Hine
Engineer of Design
and Environment

By: Ted B. Walschleger, P. E.
Engineer of Project Management

cc: Diane O'Keefe; Roger Driskell; R. E. Anderson; Jim White; Design & Environment File

TBW:TK:jc

RECURRING SPECIAL PROVISIONS

The following RECURRING SPECIAL PROVISIONS indicated by an "X" are applicable to this contract and are included by reference:

CHECK SHEET #			PAGE NO.
1		State Required Contract Provisions All Federal-aid Construction Contracts (Eff. 2-1-69) (Rev. 10-1-83)	49
2		Subletting of Contracts (Federal-aid Contracts) (Eff. 1-1-88) (Rev. 5-1-93)	51
3	X	EEO (Eff. 7-21-78) (Rev. 11-18-80)	52
4	X	Specific Equal Employment Opportunity Responsibilities NonFederal-aid Contracts (Eff. 3-20-69) (Rev. 1-1-94)	63
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10		Construction Layout Stakes Except for Bridges (Eff. 1-1-99) (Rev. 1-1-02)	78
11	X	Construction Layout Stakes (Eff. 5-1-93) (Rev. 1-1-02)	81
12		Use of Geotextile Fabric for Railroad Crossing (Eff. 1-1-95) (Rev. 1-1-97)	84
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14		Bituminous Surface Treatments Half-Smart (Eff. 7-1-93) (Rev. 1-1-97)	92
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Revised 10-25-2004

CONDUIT ATTACHED TO STRUCTURE, PVC
Effective: July 8, 2004

Add the following paragraph to Article 811.02:

“(c) Rigid Nonmetallic Conduit……..1088.01(b)”

"The gasket shall be extruded directly onto the junction box cover."

Add the following paragraph to Article 811.03(d):

“All PVC conduits over 1.0 meter in length shall have expansion couplings. The relative position of the sides of the expansion couplings shall be adjusted to properly compensate for the thermal expansion of the conduit due to the ambient temperature at the time of installation.”

Add the following paragraphs to Article 811.03:

“(e) Rigid Nonmetallic Conduit

“(1) General. Rigid nonmetallic conduit and fittings installed in exposed locations shall be Schedule 80. Rigid nonmetallic conduit installation shall be according to Article 810.0(b). Conduits terminating in junction and pull boxes shall be shall be terminated with hubs, integral box hubs, or integral box bosses.

“(2) Supports. Surface mounted rigid nonmetallic conduit shall be supported in compliance with Article 811.03(a)(2), except the reference to “NEC Article 346-12” shall be replaced with “NEC (2002 Edition) Article 352.30. The maximum distance between conduit supports shall be that shown in NEC (2202 Edition) Table 352.30(B).”

Revised 10-25-2004

INDIANA STATE LINE RADIO TOWER ALTERATIONS

July 8, 2004

Description

This item consists of modifications to state line radio tower site on the south side of I-80/94 near station 7+980 to permit the construction of retaining wall 016-W922. This work consists of locating existing underground electrical systems, furnishing ground rods, ground ring and equipment grounding conductors, temporary and permanent fence posts and fencing, removing an existing handhole, removing underground electrical cables and conduit, and coordination with other contractors and the Indiana Department of Transportation.

Materials

Grounding Electrodes (Rods) and Grounding Electrode Conductors shall comply with Article 1087.01 of the Standard Specifications. Chain Link fence materials, accessories, and fittings shall comply with Articles 1006.26, 1006.27, and 1006.28 of the Standard Specifications. Concrete for fence post foundations shall be class SI Concrete.

Submittals

The Contractor shall submit manufacturer data sheets and shop drawings clearly indicating and specifying all of the material to be used, including but not limited to grounding electrodes, grounding electrode conductors, exothermic welding materials and molds and manufacturer certification of the personnel making such welds, and all fencing materials. Fencing materials include but are not limited to chain link fabric, line posts, terminal posts, gate posts, tension wire, horizontal braces, truss rods, gate frames, post tops, stretcher bars, fabric ties, fittings, bolts, and nuts. Where a sheet or drawing describes more than one unique item, the Contractor shall clearly mark the submittal to indicate which items are being proposed. Failure to do so will cause the submittal to be rejected.

Construction Requirements

The Contractor shall perform work at this site so that site access control is maintained at least equal to the control of the site prior to construction activity. Access through a padlocked gate for Indiana DOT personnel shall be maintained at all times. If the minimum distance between the temporary fencing and any portion of the antenna structure or electrical enclosure is less than 2.5 m (8 ft), the Contractor shall provide tall fencing, additional site fencing, or other methods to further restrict unauthorized access to the site. The Contractor's proposed methods for restricting unauthorized access shall be submitted to the Engineer and approved by the Engineer prior to construction.

Revised 10-25-2004

GENERAL ELECTRICAL REQUIREMENTS
Effective: October 1, 2004

Add the following to Article 801 of the Standard Specifications:

Preconstruction Inspection:

General. Before performing any excavation, removal, or installation work (electrical or otherwise) at the site, the Contractor shall request a preconstruction site inspection, to be held in the presence of the Engineer and a representative of the party or parties responsible for maintenance of any lighting and/or traffic control systems which may be affected by the work. The request for the and preconstruction inspection shall be made no less than seven (7) calendar days prior to the desired inspection date. The preconstruction inspection shall establish the approximate location and operating condition of lighting and/or traffic control systems which may be affected by the work

Marking of Existing Cable Systems. The contractors responsible for construction and maintenance of existing underground cable routes within this contract's limits of improvement shall, at the Contractor's request, mark and/or stake, once per location, all of the underground cables for which they have maintenance responsibility or which they have constructed but have not yet been accepted by the State. A project may involve multiple "locations" where separated electrical systems are involved (i.e. different controllers). The markings shall be taken to have a horizontal tolerance of at least 304.8 mm (one (1) foot) to either side. The requests for the cable locations and marking shall be made at the same time the request for the preconstruction inspection is made. The Contractor shall exercise extreme caution where existing buried cable runs are involved. The markings of existing systems are made strictly for assistance to the Contractor and this does not relieve the Contractor of responsibility for the repair or replacement of any cable run damaged in the course of his work, as specified elsewhere herein. NOTE THAT THE CONTRACTOR SHALL BE ENTITLED TO ONLY ONE REQUEST FOR LOCATION MARKING OF EXISTING SYSTEMS AND THAT ADDITIONAL REQUESTS MAY ONLY BE HONORED AT THE CONTRACTOR'S EXPENSE.

Proposed Electrical Equipment and Cable Systems. Proposed temporary and permanent electrical equipment and underground cables may be installed by other contractors within the limits of improvement of this contract while this work in this contract is being performed. The Contractor shall coordinate the work in this contract with other contractors as required elsewhere in these special provisions. This coordination includes but is not limited to coordinating construction sequences and noting the location of electrical equipment and underground cables as such work is performed and preserving such information as a supplement to the initial existing cable locations provided to the Contractor. The Contractor shall have the same responsibility for preventing damage to, and liability for repairing any damage done to, electrical equipment and underground cables installed during the execution of this contract, as for electrical equipment and underground cables existing at the start of work under this contract.

Added 10-25-2004

Add the following to Article 801 of the Standard Specifications:

> "Electrical material or equipment which are similar or identical shall be the product of the same manufacturer, Electrical materials and equipment shall bear the UL label whenever such labeling is available."

Revise the 7th and 8th paragraphs of Article 801.08 of the Standard Specifications to read:

> "Engineer's Stamp. After the Engineer reviews the submittals for conformance with the design concept of the project, the Engineer will stamp the drawings indicating their status as 'Approved', 'Approved-As-Noted', 'Disapproved', or 'Information Only'. Since the Engineer's review is for conformance with the design concept only, it is the Contractor's responsibility to coordinate the various items into a working system as specified. The Contractor shall not be relieved from responsibility for errors or omissions in the shop, working, layout drawings, or other documents by the Department's approval thereof. The Contractor must still be in full compliance with contract and specification requirements.
>
> Resubmittals. All submitted items reviewed and marked 'APPROVED AS NOTED', or 'DISAPPROVED' are to be resubmitted in their entirety with a disposition of previous comments to verify contract compliance at no additional cost to the state unless otherwise indicated within the submittal comments."

The Contractor shall coordinate the electrical work performed under this contract with other contracts as required in the Standard Specification Article 105.08 and as modified in these special provisions.

The Contractor shall mandrel-test and provide pulling ropes for all embedded conduits as required in the fifth paragraph of Article 812.03(a) of the Standard Specifications. This work is included in the payment for raceways embedded in structure.

CONCRETE COLLAR

Description: This item shall consist of the construction of cast-in-place concrete collars as shown on the plans, in accordance with the applicable portions of Section 503 and 542 of the Standard Specifications.

Method of Measurement: CONCRETE COLLAR will be measured for payment on a per each basis.

Basis of Payment: This work will be paid for at the contract unit price each for CONCRETE COLLAR, which price shall be payment in full for all labor, equipment and materials necessary to complete the work as specified herein. Reinforcement will be paid for according to Section 508. Expansion bolts, when required, will be paid for according to Section 540.

Added 10-25-2004

TRAFFIC CONTROL FOR WORK ZONE AREAS
Effective: 9/14/95 Revised: 1/30/03

Work zone entry and exit openings shall be established daily by the Contractor with the approval of the Engineer. All vehicles including cars and pickup trucks shall exit the work zone at the exit openings. All trucks shall enter the work zone at the entry openings. These openings shall be signed in accordance with the details shown elsewhere in the plans and shall be under flagger control during working hours.

The Contractor shall plan his trucking operations into and out of the work zone as well as on to and off the expressway to maintain adequate merging distance. Merging distances to cross all lanes of traffic shall be no less than 1/2 mile. This distance is the length from where the trucks enter the expressway to where the trucks enter the work zone. It is also the length from where the trucks exit the work zone to where the trucks exit the expressway. The stopping of expressway traffic to allow trucks to change lanes and/or cross the expressway is prohibited.

Failure to comply with the above requirements will result in a Traffic Control Deficiency charge. The deficiency charge will be calculated as outlined in the special provision for **"TRAFFIC CONTROL DEFICIENCY DEDUCTION"**. The Contractor will be assessed this daily charge for each day a deficiency is documented by the Engineer.

CONNECTION TO EXISTING SEWER

This item shall consist of the construction of proposed storm sewer connection to existing storm sewer at locations shown on the plans and as directed by the Engineer.

The new opening in the existing storm sewer shall be made in a manner to minimize any structural damage to the storm sewer. Any damage to the existing storm sewer shall be repaired to the Engineer's satisfaction at no additional cost to the department.

The storm sewer connection to the existing storm sewer shall be sealed with class SI concrete or brick and suitable mortar, per District One Detail BD-07 Detail "C", to the satisfaction of the engineer.

Method of Measurement: CONNECTION TO EXISTING SEWER will be measured for payment on a per each basis.

Basis of Payment: This work will be paid for at the contract unit price per each for CONNECTION TO EXISTING SEWER which price shall be payment in full for all labor, equipment and materials necessary to complete the work as herein specified.

CONNECTION TO EXISTING STRUCTURE

This item shall consist of the construction of proposed storm sewer connection to existing median inlet structures at locations shown on the plans and as directed by the Engineer.

Added 10-25-2004

The new opening in the existing median inlet structure shall be made in a manner to minimize any structural damage to the median inlet structure. Any damage to the median inlet structure shall be repaired to the Engineer's satisfaction at no additional cost to the department.

The storm sewer connection to the existing median inlet structure shall be sealed with class SI concrete or brick and suitable mortar to the satisfaction of the engineer.

Method of Measurement: CONNECTION TO EXISTING STRUCTURE will be measured for payment on a per each basis.

Basis of Payment: This work will be paid for at the contract unit price per each for CONNECTION TO EXISTING STRUCTURE which price shall be payment in full for all labor, equipment and materials necessary to complete the work as herein specified.

INDOT - BASIS FOR USE OF APPROVED OR PREQUALIFIED MATERIALS

The Indiana Department of Transportation Standard Specifications are revised as follows:

SECTION 106, AFTER LINE 45, INSERT AS FOLLOWS:

The basis for use of materials shown in the List of Approved or Prequalified Materials will be the Engineer's verification that the materials provided are included in the List of Approved or Prequalified Materials.

INDOT - APPROVED EXPANSION JOINT SS DEVICES

APPROVED EXPANSION JOINT SS DEVICES Only the following expansion devices will be considered acceptable for use as expansion joint SS in accordance with 724.

(a) The Strupco 40SS as manufactured by the Structural Rubber Products Company, 2245 South Ninth, Springfield, Illinois, 62705, and detailed as Alternate A on Bridge Standard Sheet "SS-1A Joints", adopted December, 1994
(b) The SE-400 as manufactured by the Watson Bowman and Acme Corporation, 95 Pineview Drive, Amherst, New York, 14120, and detailed as Alternate B on Bridge Standard Sheet "SS-1A Joints", adopted December, 1994
(c) The Steelflex SSA as manufactured by the D. S. Brown Company, 300 E. Cherry Street, North Baltimore, Ohio, 45872, and detailed as Alternate C on Bridge Standard Sheet "SS-1B Joints", adopted December, 1994
(d) The RJ-400 as manufactured by R.J. Watson, Inc., P.O. Box 85, East Amherst, New York, 14051, and detailed as Alternate D on Bridge Standard Sheet SS-1B Joints, adopted December, 1994

Expansion joints SS other than those listed above will not be accepted for use. Expansion joints SS manufactured by the above listed companies which are not in accordance with the details shown on the referenced standard sheet will not be permitted.

Added 10-25-2004

INDOT - BEARING ASSEMBLIES

The Indiana Department of Transportation Standard Specifications are revised as follows:

SECTION 726, BEGIN LINE 1, INSERT AS FOLLOWS:

SECTION 726 -- BEARING ASSEMBLIES

Description. This work shall consist of furnishing and installing bearing assemblies in accordance with the applicable requirements of 915.04, the details shown on the plans, the manufacturer's recommendations, or as directed.

Materials. Materials shall be in accordance with 915.05.

Construction Requirements. Masonry plates for polytetrafluoroethylene bearings shall be perfectly level. The tolerance between the top face of the masonry 10 plate and the bottom face of the top plate shall be a maximum of 1.6 mm (1/16 in.), measured at the ends of a diameter of the bottom plate of the bearing assembly. Other dimensional tolerances shall be as shown on the plans or in accordance with 915.04(d). 726.04

Method of Measurement. This work will be measured by the number of bearing assemblies complete in place. 726.05

Basis of Payment. This work will be paid for at the contract unit price per each for bearing assemblies of the type shown on the Schedule of Pay Items. Payment will be made under: Pay Item Pay Unit Symbol Bearing Assembly, (of the type specified) EACH type The costs of having a manufacturer's representative at the job site during installation, and all necessary incidentals shall be included in the cost of this work.

SECTION 915, AFTER LINE 264, INSERT AS FOLLOWS:

915.05 Polytetrafluoroethylene Bearing Assemblies. Assemblies. A copy of the manufacturer's design manual shall be submitted for approval when directed. All steel components shall be in accordance with ASTM A 709M Grade 250 (ASTM A 709 Grade 36) unless otherwise shown on the plans. Where these assemblies are to be used in conjunction with self-weathering steel bridges, the steel components shall be in accordance with ASTM A 709M Grade 345W (ASTM A 709 Grade 50W). Stainless steel mating surfaces shall be 14 gage minimum ASTM A 240 type 304 sheets with a maximum surface roughness of 20 Rms. Rev. 1-4-99 The polytetrafluoroethylene shall be 100 percent virgin unfilled polymer or 15 percent glass filled and etched on the bonding side. The properties of the polytetrafluorethylene shall be in accordance with the following:

REQUIREMENT TEST METHOD VALUE
Hardness at 78F (25C) ASTM D 5212 50-65 Durometer
Tensile Strength, minimum ASTM D 638 17.24 MPa (2,500 psi)
Elongation, min. percent ASTM D 638 200 Specific Gravity ASTM D 792 2.1 to 2.3

Added 10-25-2004

Polytetrafluoroethylene, where required, shall be bonded to grit blasted steel. The polytetrafluoroethylene guides shall be bonded and mechanically fixed into place. The bonding compound used to bond polytetrafluoroethylene or elastomeric pads to steel plates shall be in accordance with ASTM D 429, Method B.

All steel surfaces exposed to the environment shall be zinc metallized and shall be 175 m (7 mils) thick in accordance with CSA G-189, or painted with structural primer in accordance with 909.02(a). The finish coat for painted steel shall be in accordance with 909.02(d). The color shall be in accordance with Federal Color Standard 595a, color No. 30045.

All required materials shall be covered by a type B certification in accordance with 916.

INDOT - COST REDUCTION INCENTIVE

The Indiana Department of Transportation Standard Specifications are revised as follows:

SECTION 109, AFTER LINE 320, INSERT AS FOLLOWS:

A proposal which uses empirical design (Section 9.7.2 of the AASHTO LRFD Bridge Design Specifications, 2nd Edition) of the concrete bridge deck will not be considered or approved.

INDOT - DEMOLITION/RENOVATION NOTIFICATION TO IDEM

The Indiana Department of Transportation Standard Specifications are revised as follows.

SECTION 202, AFTER LINE 33, INSERT AS FOLLOWS:

In accordance with IAC 14-10, the Contractor shall complete and submit a demolition/renovation notification to IDEM when demolition or renovation of buildings, houses, canopies, and bridges are part of the contract. This notification shall be submitted regardless of whether asbestos containing material is present. Each notification form submitted to IDEM may have a maximum of 10 structures listed on the form. For the purposes of this form, a structure includes a building, house, canopy, or a bridge. Fees for this demolition/renovation notification are $50.00 per notification and shall be paid to IDEM by the Contractor.

Copies of the demolition/renovation notification form can be obtained at: www.in.gov/icpr/webfile/formsdiv/44593.pdf. Questions concerning the completion of the demolition/renovation notification should be addressed to IDEM's Office of Air Management's toll free number (888) 547-8150. Office hours are Monday through Friday between the hours of 6:30 a.m. and 4:30 p.m. An inspector will assist in proper completion of the notification.

Initial notification to IDEM shall be by certified mail, return receipt requested, or by hand delivery. Verification of this notification shall be provided to the Engineer. The Contractor shall provide such notification 10 work days prior to the date on which demolition or renovation operations are anticipated to begin. If the Contractor postpones the beginning date of demolition or renovation operations, IDEM shall be provided written notice of the new start date, postmarked at least five work days or delivered at least two work days before these operations begin. Verification of this notification shall also be provided to the Engineer.

Added 10-25-2004

SECTION 202, BEGIN LINE 275, DELETE AND INSERT AS FOLLOWS:

202.06.1 Inspection and Removal of Asbestos. The Contractor shall comply with all applicable environmental regulations including but not limited to those as follows:

In accordance with 202.02 and IAC 14-10, a demolition/renovation notification is to be submitted to IDEM 10 work days prior to the start of demolition or renovation operations. During the 10 day period, IDEM may make a determination of the existence of asbestos materials. Verification of this notification shall also be provided. Local governmental agencies may have additional regulations that must be followed. The Contractor shall contact IDEM's air management office to determine what local agencies have regulations.

INDOT - GENERAL BRIDGE REQUIREMENTS

The Indiana Department of Transportation Standard Specifications are revised as follows:

SECTION 206, LINE 145, INSERT AS FOLLOWS:

206.08 Preparation of Foundation Surfaces. Excavation for foundations on rock without piles shall extend a minimum of 600 mm (2 ft) into solid rock. All rock or other hard material, if

SECTION 702, AFTER LINE 21, INSERT AS FOLLOWS: Concrete in superstructure, integral bents, and railings shall be class C. Concrete in bent caps, unless poured integrally with the superstructure; pier caps; abutment caps; pier stems; abutment walls; mudwalls; columns; crashwalls; collision walls; and wingwalls, unless poured with integral end bents, shall be class A. Concrete in footings shall be class B.

SECTION 702, BEGIN LINE 547, INSERT AND DELETE AS FOLLOWS: Forms for exposed concrete edges shall be filleted and chamfered as shown on the plans and 25 mm (1 in.). Forms shall be given a bevel or draft for in the case of all projections, such as girders and copings, to ensure easy removal.

SECTION 702, BEGIN LINE 1379, INSERT AS FOLLOWS: The costs of forms, polyvinyl chloride deck drains, falsework, falsework piling, centering, expansion joints, waterproofing, curing, finishing, and necessary incidentals shall be included in the costs of the pay items. The cost of placing epoxy resin adhesive on existing concrete surfaces shall

SECTION 703, LINE 45, INSERT AS FOLLOWS: 703.06 Placing and Fastening. Reinforcing steel shall not be ordered for piers or bents to be founded on soil or rock until the foundation conditions have been investigated. The bottom elevations of such footings will then be determined. Written permission will then be given to order such reinforcing steel. Sufficient excavation and all necessary soundings shall be made as directed so that exact bottom elevations of footings may be determined. All dimensions shown on the plans for spacing of

SECTION 707, AFTER LINE 175, INSERT AS FOLLOWS: Voids in precast concrete members shall be formed of approved material. Voids shall be vented during curing. All voids shall be drained by means of an approved method.

Added 10-25-2004

SECTION 707, LINE 190, INSERT AS FOLLOWS: approved methods. The outside faces of fascia beams and the tops of all beams shall be sealed in accordance with 702.21. Such faces shall not be rubbed.

INDOT – MASONRY COATING

This item shall be performed at locations and per details shown on the plans, in accordance with the applicable portions of Sections 702, 709 and 728 of the Indiana Department of Transportation Standard Specifications the following special provision and as directed by the engineer.

Description. This work shall consist of the preparation of the concrete surfaces, cleaning such surfaces by means of sandblasting, and furnishing and applying masonry coating as described herein. The masonry coating shall be applied to all concrete surfaces shown on the plans or as directed.

MATERIALS 728.02 Materials. Materials shall be in accordance with 909.13. 10

CONSTRUCTION REQUIREMENTS

Surface Preparation. The surfaces to be masonry coated shall be given a finish in accordance with 702.21. Such surfaces shall then be sealed with a concrete sealer in accordance with 709. Air pockets of up to 6 mm (1/4 in.) in width and depth will not require grouting prior to application of the masonry coating. Air pockets larger than 6 mm (1/4 in.) in width and depth shall be filled with a grout mix composed of one part portland cement, two parts screened and washed sand graded to pass the 1.18 mm (No. 16) sieve with not more than 5 percent retained on the 600 µm (No. 30) sieve, and sufficient water to produce a thick liquid mix. The grout shall be applied to fill the air pockets and voids by using burlap pads, float sponges or other acceptable methods. As soon as the grout has taken its initial set, the surface shall be brushed to remove all loose grout, leaving the surface smooth and free of air pockets and voids. Prior to the application of the masonry coating, regardless of whether the concrete surface has been previously sealed, the surface to be coated shall be lightly sandblasted to remove flaking coatings, dirt, oil and other substances deleterious to the applied finish coating.

Overblasting, exposing additional air pockets, or disfiguring the surface shall be prevented. Final cleaning shall be done with compressed air. The air compressor shall be equipped with suitable separators, traps, or filters which shall remove water, oil, 30 grease, or other substances from the air line. Prior to application of the finish coating, the surfaces shall have been prepared in accordance with the manufacturer's recommendations and shall be in a condition consistent with the manufacturer's requirements.

Application. The application, including equipment used, shall be in accordance with the manufacturer's recommendations. The material shall be applied by qualified personnel experienced in the work.

The material shall be thoroughly mixed in its original container. If skins have formed, the material will be rejected. The material shall not be thinned. The masonry coating may be applied

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over a damp, but not wet, surface. It shall be applied at a uniform film thickness at a rate of 1.1± 0.1 m^2 /L (45 ± 5 sft/gal.) or as recommended by the manufacturer and approved by the Engineer. In either case, the application rate shall be sufficient to produce a uniform color and texture. The material shall be applied only when the ambient temperature is between 7 C (45 F) and rising, and 38 C (100 F). It shall not be applied onto frozen surfaces or if rain is imminent. If rain occurs on a freshly applied surface, recoating may be required based on the extent of rain damage.

The material shall not be applied if dusty conditions exist in the vicinity of the surfaces to be coated. When dust conditions are beyond the control of the contractor, or are generated off-site, application shall not take place until more favorable conditions exist. The application of the masonry coating shall be scheduled as one of the final finishing operations to minimize construction generated dust. A wet edge shall be maintained at all times to prevent lap marks. Stopping and starting in the middle of a section of concrete will not be permitted. If applying the coating with a roller, the material shall initially be applied in vertical strokes, cross rolled for even film and appearance, then finished with vertical strokes.

After application, the coating shall be dry to the touch within 48 hours. The coating shall achieve a final cure within two to three weeks under ideal conditions. 728.05 Finishing. The coating material in the finished state shall be capable of accommodating the thermal and elastic expansion ranges of the substrate without cracking.

The texture of the completed finish coat shall be generally similar to that of rubbed concrete. The completed finish coat shall be tightly bonded to the structure to 70 present a uniform appearance and texture. If necessary, additional coats shall be applied to produce the desired surface texture and uniformity.

Coatings shall be entirely removed from the structure upon their failure to positively adhere without chipping, flaking or peeling, or attaining the desired surface appearance. The finish coat shall be reapplied after proper surface preparation until the desired finished product is achieved. The average thickness of the completed finish coat shall not exceed 3 mm (1/8 in.).

The manufacturer shall submit, for each batch of material used, the product 80 analysis data as follows: (a) Mass per liter (Weight per gallon). (b) Viscosity in Kreb units. (c) Mass percent pigment. (d) Mass percent vehicle solids. (e) Infrared spectra of vehicle solution.

Method of Measurement. Only those measurements necessary to verify application rates will be made.

Basis of Payment. Masonry coating used on concrete bridge railing or bridge concrete median barrier will be paid for at the contract lump sum price for masonry coating. Concrete sealer will be paid for in accordance with 709.08. Payment will be made under: Pay Item Pay Unit Symbol Masonry Coating, LS Surface Seal, LS. The cost of masonry coating used on roadway concrete median barrier shall be included in the cost of such median barrier. The cost of surface preparation, furnishing and applying the material, labor, equipment, and necessary incidentals shall be included in the cost of this work.

SECTION 909, AFTER LINE 832, INSERT AS FOLLOWS: 909.13 Masonry Coating Material. Masonry coating material shall be a commercial product designed specifically for coating concrete. The material shall be suitable for application on damp concrete, or concrete which is

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not fully cured. Only one coating material shall be used on an individual structure. It shall be delivered to the project site in sealed containers bearing the manufacturer's original labels. The brand, color, and type shall be clearly marked on each container. All material shall be from the same lot or batch unless otherwise authorized. A copy of the manufacturer's printed instructions shall be made available.

The coating material shall be stored in airtight, upright containers. The containers shall be stored in a dry enclosure where the temperature is above 7 C (45 F) and less than 38 C (100 F). Material which has been subjected to freezing will be rejected.

The masonry coating shall have a shelf life of not less than 12 months.

The color of the applied masonry coating shall be in accordance with Federal Color Standard No. 595a. Such color shall match the color identification number shown on the plans.

(a) Material Testing. All testing shall be performed by a qualified commercial testing laboratory acceptable to the Division of Materials and Tests.

The applied finish coating shall be subjected to and shall satisfy the requirements of the tests listed below, prior to use on a structure. The masonry coating manufacturer shall certify that the coating is compatible with the sealer used on the concrete surface,

1. Freeze-Thaw Tests. The applied finish coating shall be subjected to freeze-thaw cycle tests as follows:

a.Three concrete specimens, not less than 100 mm by 150 mm by 150 mm (4 in. by 6 in. by 6 in.), of the mix design for the structure shall be cast and cured. Fourteen days moist curing with a drying period at room temperature, 16 C to 27 C (60 F to 80 F), for 24 hours will be required before the specimens are coated with the applied finish. There shall be no excessive oil on specimen forms. The finish coating shall be applied to the sides of specimens at a spreading of 1.2 0.2 m /l (50 10 sft/gal). Brush application will be permitted. Cementitious coatings shall be cured at room temperature and 50 percent relative humidity for 24 hours, at room temperature and 90 percent relative humidity for 48 hours, at room temperature and 50 percent relative humidity for four days for a total curing time of seven days. Other coatings shall be cured at room temperature for 48 hours after the completing of curing.

b.The specimens shall be immersed in water at room temperature for three hours, then removed.

c.The specimens shall be placed in cold storage at -26 C (-15 F) for one hour, then removed.

d.The specimens shall be thawed at room temperature for one hour.

e.Steps c. and d. above shall be repeated for a total of 50 cycles. At the end of 50 cycles, the specimens shall show no visible defects.

2. Accelerated Weathering. The applied finish coating shall be subjected to a 5,000 hour exposure test in a Twin-Carbon-Arc-Weatherometer, ASTM G 23, Type D, at an operating temperature of 63 C (145 F). The test shall be made at 20 minute cycles consisting of 17 minutes of light and 3 minutes of water spray plus light. At the end of the exposure test, the exposed samples shall show no chipping, flaking, or peeling. The panels for this test shall be prepared by means of applying the coating at a spreading rate of 1.2 0.2 m /l (50 10 sft/gal.) to both sides and edges. Panels shall be cut from asbestos cement shingles in accordance with Federal Specification SS-S-346, Type I. Curing time shall be in accordance with 908.12(b)1.

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3. Fungus Growth Resistance. The applied finish coating shall pass a fungus resistance test in accordance with Federal Specification TT-P-29g. Fungus growth shall not be indicated after a minimum incubation period of 21 days. Rev. 3-01-01

4. Abrasion Resistance. The applied finish coating shall pass the 3,000 liter sand abrasion test in accordance with Method 6191 Abrasion Resistance - Falling Sand, Federal Test Method Standard 141a. The specimens for this test shall be prepared by means of applying the coating to a cleaned steel panel at a spreading rate of 1.2 0.2 m /l (50 10 sft/gal.). The specimens shall be cured at room temperature for 21 days.

5. Impact Resistance. The coating shall be applied to a concrete panel prepared in accordance with Federal Test Method Standard 141a, Method 2051, at a spreading rate of 1.2 0.2 m /l (50 10 sft/gal.), and permitted to cure for 21 days a room temperature. The test shall then be run using the Gardner Mandrel Impact Tester in accordance with ASTM D 2794 using a 13 mm (in.) indenter with an impact load of 2.7 joules (24 in. lbs). The coating shall shown no chipping under this impact load.

6. Salt-Spray Resistance Test. A concrete specimen shall be coated at the rate of 1.2 0.2 m /l (50 10 sft) and cured for 21 days at room temperature. The coated specimen shall be exposed to a 5 percent salt solution in accordance with ASTM B 117 for 300 hours where the atmospheric temperature is maintained at 32 C 1 C (90 F 2 F). At the end of 300 hours of exposure, the coating shall shown no ill effects, loss of adhesion, or deterioration.

7. Flexibility Test. A sheet metal specimen shall be coated with the applied finish coating at a rate of 1.1 0.2 m /l (45 10 sft/gal.) and permitted to cure for 48 hours at room temperature. The coated specimen shall be bent 180 degrees over a 25 mm (1 in.) diameter mandrel. After bending, the coating shall show no breaking.

(b) Certification. Before material is applied, a type B certification in accordance with 916 shall be furnished attesting that the commercial product furnished is in accordance with the same formula as that previously subject to the tests specified below and approved. Copies of the test reports shall be attached to the certification. Reports for tests made more than four years prior to shipment to the contract will not be accepted.

A service record shall be supplied which shows that the finish coating material has a satisfactory service record on sealed concrete surfaces for a period of not less than five years prior to the date of submission of the service record. The finish coating shall also have shown satisfactory service characteristics without peeling, chipping, flaking, or nonuniform change in texture or color. A specific structure for the specific product shall be named for the service record.

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County Name - COOK- -
Code - 31 - -
District - 1 - -
Section Number - 2626.2-R-1

Project Number

Route FAI 80

Item Number	Pay Item Description	Unit of Measure	Quantity	x	Unit Price	=	Total Price
MX030519	CONC C SUP-STR (IN.)	CU M	554.700				
MX030520	REINF BARS E-CT (IN.)	KG	386,360.000				
MX030521	P UDR PRF 1.63 150 IN	METER	580.000				
MX030522	STR EXP JOINT SS IN.	METER	43.700				
MX032178	TEMP INFO SIGNING	SQ M	50.000				
MX033226	WHITEWASH CONC PAVT	SQ M	3,106.000				
MX033269	PIPE ELBOW 200	EACH	9.000				
* MX033276	TEMP SOIL RETEN SYSTM	SQ M	328.000				
MX033290	SED CONT SILT FENCE	METER	356.000				
MX033291	SED CON SILT FEN MAIN	METER	712.000				
MX033292	SED CON STAB CONST EN	SQ M	265.000				
MX033303	SED CON STAB CON EN M	SQ M	265.000				
MX033407	CON EMB STR 50 CNC	METER	548.000				
MX406078	P BCSC SUPER "F" N105	M TON	746.900				
MX406220	BCBC SUP IL-19.0 N105	M TON	898.200				
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* MX512010	TEMP SHT PILING (RIP)	SQ M	2,161.400				
* MX704012	TEMP CON BAR (IO)	METER	4,463.000				
MZ013825	CONTR LOW-STRENG MATL	CU M	176.300				
* MZ047300	PROTECTIVE SHIELD	SQ M	800.000				
MZ022800	FENCE REMOVAL	METER	495.000				
M2010110	TREE REMOV 6-15	UNIT	184.000				
M2010210	TREE REMOV OVER 15	UNIT	46.000				
M2010500	TREE REMOV HECTARES	HA	0.800				
M2020010	EARTH EXCAVATION	CU M	2,015.500				
M2020045	EARTH EXCAVATION SPL	CU M	1,833.400				
M2021200	REM & DISP UNS MATL	CU M	3,537.500				
M2040800	FURNISHED EXCAV	CU M	19,400.300				
M2080150	TRENCH BACKFILL	CU M	1,710.700				
M2101000	GEOTECH FAB F/GR STAB	SQ M	3,890.000				
M2113150	TOPSOIL F & P 150	SQ M	3,726.000				
M2113300	TOPSOIL F & P 300	SQ M	2,412.000				
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M5030350	CONC STRUCT	CU M	2,046.200				
M5030360	CONC SUP-STR	CU M	83.400				
M5030380	RUSTICATION FINISH	SQ M	3,679.000				
M5030450	PROTECTIVE COAT	SQ M	2,563.000				
M5050305	ERECT STRUCT STEEL	L SUM	1.000				
M5080205	REINF BARS, EPOXY CTD	KG	150,470.000				
* M5120900	TEMP SHT PILING	SQ M	575.000				
M542B112	R C PIPE ELBOW 300	EACH	7.000				
M542E112	PRC FL-END SEC 300	EACH	2.000				
M542H020	P CUL CL A 1 300	METER	13.000				
M5500620	STORM SEW CL B 2 200	METER	65.000				
M5502840	SS 1 RCP CL 4 300	METER	674.800				
M5502920	SS 1 RCP CL 3 900	METER	4.500				
M5503050	SS 2 RCP CL 3 300	METER	161.500				
M5503060	SS 2 RCP CL 3 375	METER	73.800				
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Item Number	Pay Item Description	Unit of Measure	Quantity	x	Unit Price	=	Total Price
M6643400	TEMP FENCE	METER	495.000				
M6690100	BACKFILL PLUGS	CU M	2.000				
M6690400	SPL WAST GRD WAT DISP	LITER	3,960.000				
* M7030240	TEMP PVT MK LINE 150	METER	4,908.000				
M7030520	PAVT MARK TAPE T3 100	METER	1,779.800				
M7030530	PAVT MARK TAPE T3 125	METER	446.800				
* M7040100	TEMP CONC BARRIER	METER	1,013.000				
* M7040200	REL TEMP CONC BARRIER	METER	3,029.000				
M7240330	REMOV SIGN PANEL T3	SQ M	32.000				
M7800605	EPOXY PVT MK LN 100	METER	12,521.800				
M7800610	EPOXY PVT MK LN 125	METER	3,819.000				
M7800620	EPOXY PVT MK LN 200	METER	1,763.000				
M7800625	EPOXY PVT MK LN 300	METER	566.000				
M7830100	PAVT MARKING REMOVAL	SQ M	1,996.000				
M8120230	CON EMB STR 50 PVC	METER	75.000				
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M8130203	JBX SS AS 300X610X200	EACH	3.000				
M8131400	JBX NM ES 525X275X200	EACH	7.000				
XX001443	STL PLATE INST DR STR	EACH	40.000				
* XX003424	CONN TO EXIST STRUCT	EACH	14.000				
X0301229	ACCID INVESTIGAT SITE	CAL MO	7.000				
* X0322463	CONN TO EXIST SEWER	EACH	9.000				
X0323426	SED CONT DR ST INL CL	EACH	672.000				
X0323879	SERVICE PATROL	CAL DA	716.000				
X0324045	SED CON STAB CON EN R	EACH	1.000				
X0324587	NOIS AB WAL A-ROD ASY	EACH	326.000				
X0324753	IN ST LN RADIO TOW WK	L SUM	1.000				
X0324754	PS #I-80-1-8460 REM P	L SUM	1.000				
X0324756	THRD T-BAR AS E C IN.	EACH	1,889.000				
X0324757	SURFACE SEAL (IN.)	L SUM	1.000				
X0324758	FW STUD SHR CON (IN.)	EACH	10,464.000				
X0324759	ANCHOR BOLT (IN.)	EACH	154.000				
* X0324776	MASONRY COATING (IN.)	L SUM	1.000				
* X0324777	FIELD OFFICE EQUIP	CAL MO	15.000				
X4210390	LUG SYSTEM COMPL SPL	EACH	1.000				
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X7011015	TR C-PROT EXPRESSWAYS	L SUM	1.000				
X7013820	TR CONT SURVEIL EXPWY	CAL DA	240.000				
X7015000	CHANGEABLE MESSAGE SN	CAL MO	15.000				
Z0002605	BAR SPLICERS, SPECIAL	EACH	36.000				
Z0013798	CONSTRUCTION LAYOUT	L SUM	1.000				
Z0018500	DRAINAGE STR CLEANED	EACH	12.000				
Z0030240	IMP ATTN TEMP NRD TL2	EACH	2.000				
Z0030260	IMP ATTN TEMP FRN TL3	EACH	2.000				
28000300	TEMP DITCH CHECKS	EACH	41.000				
28000510	INLET FILTERS	EACH	96.000				
40702700	FURNISH PROFILOGRAPH	L SUM	1.000				
50300440	ERECT ELAS BRG ASY T1	EACH	21.000				
50300450	ERECT ELAS BRG ASY T2	EACH	14.000				
* 54248515	CONCRETE COLLAR	EACH	11.000				
60207605	CB TC T8G	EACH	2.000				
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Item Number	Pay Item Description	Unit of Measure	Quantity	x	Unit Price	=	Total Price
60208210	CB TC T20F&G	EACH	1.000				
60234200	INLETS TA T1F OL	EACH	33.000				
60236200	INLETS TA T8G	EACH	12.000				
60250200	CB ADJUST	EACH	9.000				
60257900	MAN RECONST	EACH	1.000				
60405740	FR & GRATES REMOVED	EACH	40.000				
60500050	REMOV CATCH BAS	EACH	5.000				
60500070	REMOV MAN - MAIN FLOW	EACH	2.000				
63100085	TRAF BAR TERM T6	EACH	1.000				
63100167	TR BAR TRM T1 SPL TAN	EACH	2.000				
63100169	TR BAR TRM T1 SPL FLR	EACH	3.000				
66900450	SPL WASTE PLNS/REPORT	L SUM	1.000				
66900530	SOIL DISPOSAL ANALY	EACH	1.000				
67100100	MOBILIZATION	L SUM	1.000				
* 70101800	TRAF CONT & PROT SPL	L SUM	1.000				
73600100	REMOV OH SIN STR-SPAN	EACH	1.000				
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73600200	REMOV OH SIN STR-CANT	EACH	2.000				
73600250	REMOV OH SIN STR-BFLY	EACH	1.000				
73700100	REM GR-MT SIN SUPPORT	EACH	10.000				
73700200	REM CONC FDN-GR MT	EACH	10.000				
73700300	REM CONC FDN-OVHD	EACH	5.000				
* 78200100	MONODIR PRIS BAR REFL	EACH	765.000				
78200420	GUARDRAIL MKR TYPE B	EACH	14.000				
78201000	TERMINAL MARKER - DA	EACH	5.000				
		* REVISED : OCTOBER 20, 2004					